

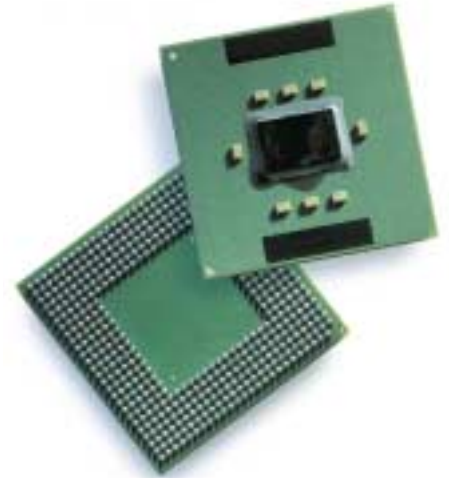


Ultra Low Voltage Intel® Pentium® III Processor at 800 MHz with 512KB L2 Cache

The new Ultra Low Voltage Intel® Pentium® III Processor at 800 MHz with 512KB L2 cache for the perfectly balanced server blade

Today, in the front-end server environment, there is a growing trend of increasing server “density” – computing power per unit area – achieved through smaller form factors and lower power consumption. Intel is introducing its Ultra Low Voltage Pentium III Processor with 512KB L2 cache as a solution for a completely balanced server blade enabling highest levels of server density.

The Ultra Low Voltage Intel Pentium III Processor with 512KB L2 cache brings Intel®-based server density leadership by enabling maximum OS images per server rack. The processor is well suited for applications like static web hosting, load balancing, firewall, DNS and proxy servers. It offers enhanced levels of scalability, serviceability and performance as well as reduced TCO – due to lower square footage and power consumption at optimal performance.



Key design features and benefits of the Ultra Low Voltage Intel® Pentium® III Processor with 512KB L2 cache

Features	Benefits
Ultra Low Voltage Intel Pentium III Processor	Pentium® brand-class performance at lower power, ideal for front-end applications (mentioned above)
512KB L2 cache	Reduced latency interface to cache data that increases performance of memory-sensitive applications
Currently at 800 MHz core speed, 100 MHz system bus speed	Addresses high-density front-end server requirements
8.5 watts ¹ maximum power	Enables highest levels of performance density (Performance / Watts / ft ²)
uFCBGA Packaging	Latest surface mount packaging technology enables smaller form factors needed for high-density server environments
0.13 micron process	Latest process technology enables lower power consumption

The Intel® 440GX Chipset: Ideal for the Ultra Low Voltage Intel® Pentium® III Processor with 512KB L2 Cache

The Intel 440GX chipset provides low power and small footprint that meets the needs of front-end applications like static web hosting, load balancing, firewall, DNS and proxy servers. The Intel 440GX chipset, together with the latest Ultra Low Voltage Intel Pentium III Processor with 512KB L2 cache provides optimal performance, serviceability and scalability. The Intel 440GX chipset is a key ingredient in creating high density servers that take full advantage of the new Ultra Low Voltage Intel Pentium III Processor with 512KB L2 cache.

Key design features and benefits of the Intel® 440GX Chipset

Features	Benefits
PC100 SDRAM	Low power, low cost memory
ECC support	Reliability viewed as “must have” by data centers today
Support for up to 2GB of main memory	Sufficient memory headroom for front-end applications
PIIX4e	Low power, low cost I/O Controller Hub

Summary

- Low power – 8.5 watts¹ – along with a smaller footprint provide reduced square footage and lower energy costs
- The Ultra Low Voltage Intel Pentium III Processor with 512KB L2 cache provides Intel®-based server density leadership by enabling maximum OS images per server rack
- Improved serviceability and scalability at optimal performance for communication and web hosting servers

¹Power value associated with 800 MHz core speed, subject to change

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The Intel Pentium III Processor may contain design defects or errors known as errata which may cause the product to deviate from published specifications. Current characterized errata are available on request.

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